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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/498,554	02/04/2000	James L. Winkler	03848-85586	8957	
28315	7590 12/06/2002	•			
BANNER & WITCOFF LTD., ATTORNEYS FOR AFFYMETRIX 1001 G STREET, N.W. ELEVENTH FLOOR WASHINGTON, DC 20001-4597			EXAMINER		
			LUDLOW	LUDLOW, JAN M	
			ART UNIT	PAPER NUMBER	
			1743 DATE MAILED: 12/06/2002	19	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application N .	Applicant(s)		
0.55	09/498,554	WINKLER ET AL.		
Office Action Summary	Examiner	Art Unit		
	Jan M. Ludlow	1743		
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wit	th the correspondence address		
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by a carned parent term adjustment. See 37 CFR 1.704(b). Status	ON. FR 1.136(a). In no event, however, may a re on. a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT statute, cause the application to become AB/	rply be timely filed r (30) days will be considered timely. IHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
1)☐ Responsive to communication(s) filed on				
	This action is non-final.			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims				
4)⊠ Claim(s) <u>48-207</u> is/are pending in the app	olication.			
4a) Of the above claim(s) <u>148-207</u> is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>48-147</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction a	nd/or election requirement			
Application Papers	na or orodon roqui omoni.			
9)☐ The specification is objected to by the Exar	miner.			
10)⊠ The drawing(s) filed on 24 May 2000 is/are	: a)⊠ accepted or b)☐ objected f	to by the Examiner.		
Applicant may not request that any objection				
11) $oxed{oxed}$ The proposed drawing correction filed on <u>1</u>	<i>2 April 2002</i> is: a)⊠ approved	b) disapproved by the Examiner.		
If approved, corrected drawings are required	in reply to this Office action.			
12) The oath or declaration is objected to by the	e Examiner.			
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:				
1. Certified copies of the priority document	nents have been received.			
2. Certified copies of the priority docum	nents have been received in Ap	oplication No		
 3. Copies of the certified copies of the application from the Internationa * See the attached detailed Office action for a 	priority documents have been rall Bureau (PCT Rule 17.2(a)).	received in this National Stage		
14) ☐ Acknowledgment is made of a claim for don	•			
a) ☐ The translation of the foreign language	e provisional application has be	en received.		
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449) Paper No 	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)		
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office	ce Action Summary	Part of Paper No. 19		

Art Unit: 1743

1. Claims 166-207 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 19.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Application/Control Number: 09/498,554

Art Unit: 1743

Note that the instant claims have an effective filing date of 11/20/1992.

6. Claims 48-147 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0535242 in view of Sanz.

EP 0535242 teaches a method of forming an array by depositing 0.5 ul droplets form a capillary tip on a micromanipulator (p.6, paragraph 1).

EP 0535242 fails to teach the instantly claimed droplet size.

Sanz teaches a micropipet for dispensing volumes on the order of 1nl.

It would have been obvious to dispense smaller volumes as taught by Sanz in the invention of EP in order to use smaller volumes of reagent in order to minimize sample requirements and/or costs as was known in the art.

- 7. Claims 146-147 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 0063810.
- 8. EP 0063810 teaches forming an array by moving a dispenser toward the support, contacting the dispenser to the support to leave a very small dot.
- EP 0063810 fails to teach the transferred volume.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use as small a volume as possible to form the array in order to conserve reagents in order to minimize sample requirements and/or costs as was known in the art.

10. Claims 48-147 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khrapko et al (Chem. Abstract No. 1991:649536) in view of Sanz.

Application/Control Number: 09/498,554

Art Unit: 1743

Khrapko et al teaches a method of forming an array of 100 x100 microdots disposed at 100 um intervals.

Khrapko et al fails to teach the instantly claimed dispensing and droplet size.

Sanz teaches a micropipet for dispensing volumes on the order of 1nl.

- 11. It would have been obvious to dispense small volumes as taught by Sanz in the invention of Khrapko et al in order to form the microarray and use small volumes of reagent in order to minimize sample requirements and/or costs as was known in the art.
- 12. Applicant's arguments with respect to claims 48-147 have been considered but are most in view of the new ground(s) of rejection.
- 13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jan M. Ludlow whose telephone number is (703) 308-4039. The examiner can normally be reached on Monday-Thursday, 11:30 am - 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (703) 308-4037. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

> Jan M. Ludlow **Primary Examiner** Art Unit 1743

iml

December 2, 2002

Page 5